

**PATENT**

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

Jean-Pierre Degand  
Anne Robert

Serial No.: Unassigned

Filed: Concurrently Herewith

For: ORGANIC GLASS OPHTHALMIC LENS  
HAVING AN IMPACT-RESISTANT  
PRIMER LAYER BASED ON A  
POLYURETHANE LATEX AND ITS  
MANUFACTURING PROCESS

Group Art Unit: Unknown

Examiner: Unknown

Atty. Dkt. No.: ESSR:037US/MBW

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**PRELIMINARY AMENDMENT**

Assistant Commissioner for Patents  
Washington, D.C. 20231

Sir:

Applicants respectfully submit this Preliminary Amendment in the above-referenced case.

Consideration of this case in view of the amendments made herein is respectfully requested.

**AMENDMENT**

**In the Specification:**

Please amend the specification as follows:

At page 1, line 7, please insert the following paragraph:

--This application is a continuation of PCT Application No. PCT/FR99/01887 filed 30 July 1999, which claims priority to French Application No. 98 09826 filed 31 July 1998.--

**In the Claims:**

Please cancel claims 1-13, without prejudice or disclaimer.

Please add new claims 14-37 as follows:

--14. An ophthalmic lens comprising an organic glass substrate, at least one abrasion-resistant coating and at least one impact-resistant primer layer inserted between the organic glass substrate and the abrasion-resistant coating, wherein the impact-resistant primer layer is formed from a latex composition comprising at least one polyurethane latex and at least one polyurethane crosslinking agent and is free of latex that includes butadiene units.

15. The ophthalmic lens of claim 14, wherein the latex composition is further defined as comprising at least one (meth)acrylic latex.

16. The ophthalmic lens of claim 15, wherein the (meth)acrylic latex forms 10 to 90% total weight of latex present in the latex composition.

17. The ophthalmic lens of claim 16, wherein the (meth)acrylic latex forms 10 to 60% total weight of latex present in the latex composition.

18. The ophthalmic lens of claim 17, wherein the (meth)acrylic latex forms 40 to 60% total weight of latex present in the latex composition.

19. The ophthalmic lens of claim 16, wherein the (meth)acrylic latex comprises styrene-acrylate copolymer latex.

20. The ophthalmic lens of claim 14, wherein the crosslinking agent comprises 0.1 to 5% by weight of the latex composition.

21. The ophthalmic lens of claim 14, wherein the crosslinking agent comprises at least one polyfunctional aziridine, (methoxymethyl)melamine resin, urea resin, carbodiimide, polyisocyanate, or blocked polyisocyanates.

22. The ophthalmic lens of claim 14, further defined as comprising a single primer layer on either the rear face of the substrate or the front face of the substrate.

23. The ophthalmic lens of claim 22, further defined as comprising a single primer layer on the rear face of the substrate.

24. The ophthalmic lens of claim 22, further defined as comprising an abrasion-resistant coating on both faces of the lens.

25. The ophthalmic lens of claim 24, further defined as comprising an anti-reflection coating on the abrasion-resistant coating of each of the faces of the lens.

26. The ophthalmic lens of claim 14, further defined as comprising a primer layer and an abrasion-resistant layer on both the front face and the rear face of the substrate.

27. The ophthalmic lens of claim 26, further defined as comprising an anti-reflection coating on the abrasion-resistant coatings.

28. A method for manufacturing an ophthalmic lens comprising:

depositing a latex composition on at least one face of the organic glass substrate, wherein the latex composition comprises at least one polyurethane latex and at least one polyurethane crosslinking agent and is free of latex that includes butadiene units;

curing the latex composition to form at least one impact-resistant primer layer; and

depositing an abrasion-resistant coating on the impact-resistant primer layer.

29. The method of claim 28, wherein the latex composition is further defined as comprising at least one (meth)acrylic latex.

30. The method of claim 29, wherein the (meth)acrylic latex forms 10 to 90% total weight of latex present in the latex composition.

31. The method of claim 30, wherein the (meth)acrylic latex forms 10 to 60% total weight of latex present in the latex composition.

32. The method of claim 31, wherein the (meth)acrylic latex forms 40 to 60% total weight of latex present in the latex composition.

33. The method of claim 30, wherein the (meth)acrylic latex comprises styrene-acrylate copolymer latex.

34. The method of claim 28, wherein the crosslinking agent comprises 0.1 to 5% by weight of the latex composition.

35. The method of claim 28, wherein the crosslinking agent comprises at least one polyfunctional aziridine, (methoxymethyl)melamine resin, urea resin, carbodiimide, polyisocyanate, or blocked polyisocyanates.

36. The method of claim 28, wherein the latex composition is cured at a temperature of at least 70°C.

37. The method of claim 28, further comprising depositing an anti-reflection coating on the abrasion-resistant coating.--

**REMARKS**

The specification has been amended to recite the priority data, to cancel claims 1-13 of the PCT application, and to add new claims 14-37. The filing fee has been calculated after amendment of the claims by the preliminary amendment

Should any additional fees under 37 C.F.R. §§ 1.16 to 1.21 be required, the Commissioner is hereby authorized to deduct said fees from Fulbright & Jaworski Deposit Account No. 50-1212/10026645/MW01999.

Respectfully submitted,



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